

Title (en)
HEAT EXCHANGER

Title (de)
WÄRMETAUSCHER

Title (fr)
ÉCHANGEUR THERMIQUE

Publication
EP 2165143 B1 20101027 (DE)

Application
EP 08762795 A 20080602

Priority
• IB 2008001457 W 20080602
• DE 102007033166 A 20070717

Abstract (en)
[origin: US2010181045A1] The invention relates to a heat exchanger (10) having an elongate hollow body with connections (12, 12', 13, 13') for the supply and discharge of a first and of a second medium, in which the first medium is guided through the elongate hollow body in a counterflow with respect to a second medium, and the second medium flows through a spiral tube (11) which extends longitudinally axially between the end sides of the hollow body, and wherein a plurality of deflecting elements (18) projects into the hollow body interior from the hollow body inner casing, which deflecting elements deflect the flow of the first medium. To improve efficiency, it is provided that the deflecting elements project in an alternating sequence from in each case opposite hollow body sides into the hollow body interior and into the region of the spiral tube, in such a way that said deflecting elements end between two spirals, and that the hollow body inner casing has, in sections, a plurality of concavely-shaped constrictions.

IPC 8 full level
F28D 7/02 (2006.01); **F28F 9/22** (2006.01)

CPC (source: EP US)
F28D 7/024 (2013.01 - EP US); **F28F 9/00** (2013.01 - EP US); **F28F 9/22** (2013.01 - EP US); **F28F 13/06** (2013.01 - EP US)

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT RO SE SI SK TR

Designated extension state (EPC)
BA RS

DOCDB simple family (publication)
US 2010181045 A1 20100722; AT E486259 T1 20101115; CN 101796364 A 20100804; CN 101796364 B 20111214;
DE 102007033166 A1 20090122; DE 502008001668 D1 20101209; DK 2165143 T3 20110214; EP 2165143 A1 20100324;
EP 2165143 B1 20101027; ES 2355016 T3 20110322; HK 1146648 A1 20110624; PL 2165143 T3 20110630; PT 2165143 E 20110128;
SI 2165143 T1 20110228; UA 97285 C2 20120125; WO 2009010834 A1 20090122; ZA 201000973 B 20101124

DOCDB simple family (application)
US 66770208 A 20080602; AT 08762795 T 20080602; CN 200880105435 A 20080602; DE 102007033166 A 20070717;
DE 502008001668 T 20080602; DK 08762795 T 20080602; EP 08762795 A 20080602; ES 08762795 T 20080602; HK 11100782 A 20110126;
IB 2008001457 W 20080602; PL 08762795 T 20080602; PT 08762795 T 20080602; SI 200830138 T 20080602; UA A201001633 A 20080602;
ZA 201000973 A 20100210